## MONTHLY WEATHER REVIEW.

Editor: Prof. CLEVELAND ABBE.

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## INTRODUCTION.

based on reports from about 3,100 stations furnished by employees and voluntary observers, classified as follows: regular stations of the Weather Bureau, 159; West Indian service stations, 13; special river stations, 132; special rainfall stations, 48; voluntary observers of the Weather Bureau, 2,562; Army post hospital reports, 18; United States Life-Saving Service, 9; Southern Pacific Railway Company, 96; Canadian Meteorological Service, 32; Mexican Telegraph Service, 20; Mexican voluntary stations, 7; Mexican Tele-graph Company, 3; Costa Rica Service, 7. International simultaneous observations are received from a few stations and used, together with trustworthy newspaper extracts and special reports.

Special acknowledgment is made of the hearty cooperation of Prof. R. F. Stupart, Director of the Meteorological Service is 157° 30' or 10th 30m west of Greenwich. Records of misof the Dominion of Canada; Mr. Curtis J. Lyons, Meteorologist to the Hawaiian Government Survey, Honolulu; Señor Manuel E. Pastrana, Director of the Central Meteorological and Magnetic Observatory of Mexico; Camilo A. Gonzales, Director-General of Mexican Telegraphs; Mr. Maxwell Hall, Government Meteorologist, Kingston, Jamaica; Capt. S. I. Kimball, level pressures," are now always reduced to standard gravity, Superintendent of the United States Life-Saving Service; so that they express pressure in a standard system of absolute Commander Chapman C. Todd, Hydrographer, United States measures.

The Monthly Weather Review for February, 1901, is | Navy; H. Pittier, Director of the Physico-Geographic Institute, San Jose, Costa Rica; Captain François S. Chaves, Director of the Meteorological Observatory, Ponta Delgada, St. Michaels, Azores, and W. M. Shaw, Esq., Secretary, Meteorological Office, London.

Attention is called to the fact that the clocks and selfregisters at regular Weather Bureau stations are all set to seventy-fifth meridian or eastern standard time, which is exactly five hours behind Greenwich time; as far as practicable, only this standard of time is used in the text of the REVIEW, since all Weather Bureau observations are required to be taken and recorded by it. The standards used by the public in the United States and Canada and by the voluntary observers are believed to conform generally to the modern international system of standard meridians, one hour apart. beginning with Greenwich. The Hawaiian standard meridian cellaneous phenomena that are reported occasionally in other standards of time by voluntary observers or newspaper correspondents are sometimes corrected to agree with the eastern standard; otherwise, the local standard is mentioned.

Barometric pressures, whether "station pressures" or "sea-

## FORECASTS AND WARNINGS.

By Prof. E. B. GARRIOTT, in charge of Forecast Division.

of the weather covering the first three days of the route of over the Missouri, Mississippi, and Ohio valleys in the rear steamers from New York and Boston bound for European ports of the storm the temperature fell to zero to the southern line were made daily during the month and printed on the weather of Nebraska on the morning of the 4th, light frost occurred maps issued at Boston, New York, Philadelphia, Baltimore, on the middle coast of the Gulf of Mexico on the morning of and Washington. On the 5th and 7th special forecasts were the 5th, and heavy frost was reported at Jacksonville, Fla., issued to the effect that steamers bound west from European on the morning of the 6th. The frosts of the 2d in California ports would encounter severe gales during the second and were accurately forecast. Warnings of heavy snow were teleports would encounter severe gales during the second and third days out. During the periods referred to gales of ex-graphed on the 2d to railroad and transportation companies ceptional severity prevailed from mid ocean to the American in the region threatened with heavy snow, and additional coast.

south Pacific coast on the morning of the 1st, whence it passed east-northeast and disappeared off the New England coast during the 4th. Following the passage of this storm freezing temperature occurred in the central valleys of California, and frost was reported as far south as San Diego. In over the north California coast on the morning of the 5th, advance of the storm center snow fell generally in the middlewestern States and in the middle and eastern districts north slope and Texas by the night of the 7th, and from that region of the Ohio River and Maryland. On the Atlantic coast drifted eastward and northeastward to the Atlantic coast by north of Hatteras high winds attended the passage of the storm, with maximum velocities ranging from 50 to 60 miles and night of the 5th, and heavy snow had fallen in the mounan hour on the New Jersey and south New England coasts. tains of central and southern California. With the eastward

Forecasts of the force and direction of the wind and the state | Attending the area of high barometer which swept southward advices were sent on the 2d and 3d stating that cold weather The first important storm of the month appeared on the would follow the passage of the storm. Ample warning was suth Pacific coast on the morning of the 1st, whence it used east-northeast and disappeared off the New England Gulf and South Atlantic States.

The second noteworthy storm of the month crossed the Continent from the 5th to the 9th. This storm appeared moved thence south of east to the southern Rocky Mountain